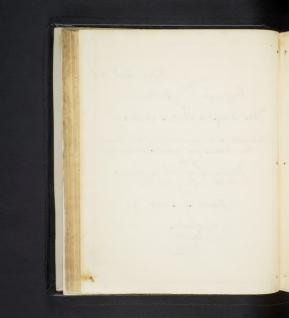
Inaugural Differentation "The Digestive Aucous Membrane Submitted to the examination of the Rovert The Shusters and Medical Faculty, University of Rensylvania, Futhe defree of the D. Joseph G. Gray Virginia. Totach 3



Thypiology and Bathology may be regarded as the groundworks of Medicine. Without a knowledge of function in its healthy state, and its changes and sympathies in an abnormal condition. The physician can but ill understand the complications of disease, or aspire in their treatment, beyond impericism. To a netributed of the wild vagaries, and absurd hypotheses which have characterized the medical profession from the days of Mippocrates to the present, and which have afforded fruitful themes for the redicule of Pliny, Les age, Moliere, and such others as have chosen medicine, or



its cultivators as the subject of their mirth. ful task, in reviewing the annals of our science, and in tracing it through the "darksome past to its more enlightened day. Oppressed by usurped authority, or trammiled by vague doctiones, Medicine an_ terior to the present century, had but little claim to the rank of a certain science. But with what complacency may we dwell upon the productions of our own age! The advancement of physick is unparalled. Within the last few years, humoralism and hypothetical medicine have lost their former authority, and upon the basis of solidism, has been exceled the beautiful doctrine of tipues. The first conception of this doctrine which has since incorporated Anatomy,

Physiology and Pathology, formerly regarded as three, in one connected whole is conceded to Borden and Macbride No Pinel Bichat however, is most probably due the honour of its present existence; the former being the first to classify disease, according to the tissue in which it was setuated; and the latter to consider these teloues in their physiological connexions. Bichat in his work on General Anatemy, has evinced a laborious research. by which those grand truths were demonstrated, that will forever entitle him to the regard of the philosopher, and the gratitude of the human family. The general circulation given to this work, and the numerous respectable authors who have appeared in its defence, and made it the foundation of their pathological views, sufficiently attest the esteem in which it is held by the medical community. With re-

gard to the opposition which this dectrines have encountered, it may with safely be said. That as little has been manifisted towards them as towards any other truths of equal magnitude. Will, however lucid they may be, have to contend with prejudece. Cope, pealous of ennovation yields with reluctance the impreferent of youth, nor will a nation readily submit to be laught by a rivial mation. Said to the might have able to be truth in the another could nation, the gentry always to be mit with, who would nother soeff than learn, in or der that we may pay them their will meritid

Son M. Charles Bell on his work on the nerwins system (nage 163) speaking of the declines of Bechal and others of the continental physiclogists has this remark, "When the popularity of these declines is considered, it may easily be conceived how difficult it has been during

constinent " rise in it, is instite nurest. i he subject unun ernoteteranen n 6 sugmatigi to best mast to the interested whom It snott med distast as a ull hnown inmy, and combat it with our western cultinder. all succe is import lears, 'e hop my to total he could be time deal his senetes . the ringdem provide is distinguished in ise & aim us, and police up all operates by exhoumonts; but let in sertence a smed hat su sustancian wheer was her exministic in



st providery ' some isovertions on had just a Secondar or recordion, 's which in marger in a name . Therew sustain.

"The begins line and in the internet excess which have a communication with "cottomat consider a come "I as diversed one lie authors continued surprises; I am quality continued, the class gentle numery. In class of these as their numer wints interfaced, a square substituted, it for many into that we there will be a square substituted, it for many into that we there will be a square substituted, it for many the interface in the same than a the same frameworthy to do, 111/4, the line same increase them become increase them become

on to envince us, the cost importances, has rail of the ellectus stystem in the amount common and of its habitily energy to its extent, sentences to meeter, another and of matter stemmentary



course, I'm to with to the rectum, on it take the grand whenemens of disposition, so or then, exercise and win absorption ne one of the continue of the individual to be individual.

Soudien. In sugestion Mucius Mimbrane is composed , but iamina . In no le wheen is ours its consistence , Suche is and character. nas teen named cereen. In this un find a dail a a logu to the outes vera . In shin, and time i' is requiring willed cules mucosa. Va. sine w'a recious, so termed on it heronge. 'cone commissing it, and it is a ques it a viene une an carane, u hene els nam. (n him to lamence between it is out mary 's umara sur purtaces, in allached, comed The secret is connected to the muscular coal in neuns of a dense collular student which



gives form to " intesten , and is the soul of The mucous glands. i steument har Limon strated , that when this is removed from any hand a the course a horned . The other reals with consequence - a cicumstance net at-" notant user the univert in a the manne . the other lepuis. I has too contersed by some , that this is is aleatty a part of the reacons themboun and should rather to consider ed as a layer of it, than as a defount " sue. By med wound a consequer with the muscular enal, is talle: is brought into heay, so as to neede to pristattic motion of the touris, in which inegn trains are expected, and in incuons bumoled.

in its out here. In convent than beam a next in a state of constant immedity, to the fluid which goes it its name. It's a moust of it is manufactured in the manufacture of its in name many parts of it is in the name of its interest in the name of its i



east theny our is a mentary count on a service in a court the tepuration of the intergences bedies, in the content of much is ever pointly secured. It to be something on the mains abundantly sec. test in the top when these terms are length actives as when they are in a stimulating a surface. There is not try on a stimulating a surface. It has not been enjured in the pure is enacted to the a top enjured on the estimate disclosure, unch y imported and the estimate disclosure, unch y imported and the estimate disclosure, a will approvide the punctual addition, are surface to punctual addition, are surjected to the second addition of the second and the second

ind and the survive is examened, we ind and the critical error mentional this is an amentional this was the correct made bear to make the papellar in pessed to a med ecolorie the papellar of the survive coul, etti-custo pical investigation shows them to consider a a large veen, and ly me hade a sport.



neld in unuen ey atentar so estano . " the a pie part of the small interten It de vitie has bun computed to eiterner to be secul four housand in number on set y squar in hets " dissend in our involugation lowards its lower wien, no ind then becoming less credent, and in the west intestine, there somenstratum is so deficient had some unatemests har has deried there existence. In a wild are larger in ben - puels of the aumintary sand than in chows. " y se very at found in the mouth, ple rach small intestones, and goil bludder. and are called a ter the names of thes unal-. mesto uno wen the first to sail altertion to Them. In other had g. the mucus system, This is not so underly dimenstrate.

"he cenon, the sel strongy suistance which go s theon is to the membrane, is not accepted by with membrane, is not



and condition, and with age, as a setuntion, and condition, and with agent to use tention a setuppe. In the remain it is g is maximum thickness, in the small intellens it is thickness that and consistence throughout and consistence throughout and consistence throughout and consistence through a condition the law into strong through or as comparations the intervent strong through or as comparation in the account, of the material of the consistence than in the small entire to the previous time.

It is a I and her for a name, en cases in sensity as age advances, but in some cases in oil persons, a some some troops so t is in the turn.

In the summer part of he summakery cumes the travers thembean is thrown into either option; forming in the small collision. The valuable connection to the large this



urangement does not exist.

explanance of the Aucous Armbrane in health educh described is for colour of the mambrane in its hastley condition. I have been a stated in purple; Broken with a shocker, yetter or and; Beyor groups with a shocker, yetter or and; Commone, and Commone, and Commone, and Commone, and Commone, and Commone worked red; chapter, water to become a verying from what he and Common was political and Common waysing from what he and

cliech of this discrepance in an act here cooks from the memorane is no network tender to pake me " survey toucher a pake me " survey in a merced a sound state. I have so not a cittle of a cook of the not a cittle of a cooks can a front names

A. In situsen to his west no mars interduce the following experiments, made as the commander ment of a source which was unaccedably anded.



tung given to the come chard through a cool of affects to a proper shadow of course. Whe cody waste the test against a tog the waste of cortain against he matter of the matter continued on the constant to tem anoth has classed since death 'och place to herethen given to the cody, and converted was usem) the sen-

"act . we we set so many causes sapath of allicing in approximate . The Signalive mucous open

Experient 1. It just green entirel was heled by a clemen the neck after being mad to fail judy for mure. Ver mounts afterword the abilition is easily amount to the color and the color of the stomach being laid open or heteled rupe at its cardiac parties—cente market marks. The colour of the field is ungues bestien if a still gettern, attending with a paste rud or wee. When held to the tight it contribute in much house arte-



cit! Response and her would in the Nachural yearnest de little can me more solls factory comments to show that he healthy theres have been the factor. In this he has seen sustained from an according from concerny by his years? I can and reliand. It is not y this shall state me some the sole news of the sole new

the clear, the summer in the solute, is usually unclesh, that of the Suddenum and pyrone num, while verying to son colour this ask oclour

rescent assump searspending with he cours of the livetic sets as some through the orient coal it in the better trong termoved, the register were occur menutify commercy ung or the subjective terms under the considerate tessers. Vinceed from withen the cap swild discours over toglit sed stock to the return the considerate various considerations. I must entist me at its reper heaten



tamenates at the conclusion of the first entitions, membrane excessed under in the great entitions, yellow palence are constinued observed which he time to not invested into the a good state of health he to time ye and lates to membrane is use actioned, wreful in the range interlines when it is generally grean an opherican attributed to

In en away, i is if a meth whete. It correberate this, we may enterduce the state ment of eld come that on the lastice of infunts, on more tend during tradicular and were

showed internality longe use in a state has a with the state attending with rese to the explaner seem from within us in the case of the stamach. The much seal on account of its sefungs sould code to synarched by scraping; when removed the cases in a magnetic war predicts were seen in the servers



examined immediately efter to his charge rund the membrane perfectly units or rose steward, having head its whole actions.

In exactisque et is y a top butteant white und in the still of a white verying to sate. In Alderly muono more strickingly sate. Must it is in where old age we see not left.

ung topoles. The is a sudden and transent some, vived to the stemach and successment, and sometimes to the commencement of the pursuan authorized a us relove. This may be observed af-

begin . The muceus wants was distinct from the vascular countries as own in the screens, it was delted and delicately grand twice when washed colourless, and while to the highly deaphaneus—with everful some very tilead a benegation of blood-welfels must proceptable at the orders. Expressed 2 to the orders.



I the covery energiand a the would be necessarian, the means settinged consolid the measures of the setting of the setting of the setting and guished, an order of the ment are they as a summer of the meater and they as a summer or yell the westers.

naces I mean in may very that the hostily moved I ment in the pater is a newheat is a register is a pate out us, in accust up it is greated white; thereing degretion the part of the membrane which have to blemach dued num, and the common account of the claum, is if a sleightly way lenge.

hours after terry for and immediately after words grand about the stemmer contained about the courses of a bowning untraceus major was much corrugal of a fact about ordered and agreeably at the contest expression we



We have then seen but to be nother eye, little of my variable extra the returning matter here were con cheer in it he angles of grade of variables ity. Because which was been been my for house transversely and you have to be more or the second or in the second as in the

"a distribution of news to the intesting as expension with a supertioned hours," our and as seen up to expension a number of for their next remembers. Proper interpolation of the second say as all against or desiding the mineral say as all against or designed to the

they approached he pylorees - sylone region small and of an asky or dull what: without any enjoction or appearance of vigit. The indication held up to the light, presented a pate rid up-



mete the victions well external codies and such as pasted over the nutretion junctions. The for mer including the apparent of annual of are wife of a necessary for latter or the necessary was given as the sympathic and its toward as the structure of the content of ingeneral to toward as the structure of the sympathic and its toward as the structure of the toward as the structure of the toward as the structure of the two many and the structure of the structure o

reasance deminishing as the parts were stretched. In orlpets or arborization visible small interlines emply, and of a very pale red volour. -Vacum yellowish white - colon colourless in direct and reflected light. With the eye plan



the brace. In remove with the theo hections of the tube, it has also beauties from the sympa-thetre. The large intestine reserves beauties from the spenal mirror, and take the stemach had in consequence a night degree of sensebility. In sympathic beauty distincted to the small intestines, explains the reason of the electricity from distincting tessions of the electricity from alternating tessions of the closurety flow alternating tessions of the unit of the me complaint made at the time and though pass made in the time and there is made extensive organic changes.

of one or two very minute ramifications, ne ar - burization was visith.

Although the difference between these two cases is not very great, it is get sufficiently so to prove our position, Mrg. that the appearance is made to wary by the process of digestion enough at least to intill the shade to different names.



that no exhalent vipole have yet been demonstrated on the digesteri mucius membrane, is doubtless owing to the importaction of our means for conducting such as enquery. inalogy would least us positively to the conclusion of their ex istance. In the hand structure, the skin, we send ne' only sebaceus glands correspond my with the murcharous glands, but also another and proceed set of signite destined a convey the newperation to the surface, and when exceled by a buste throwing out a large manlely of a itend of a decided by serous haracles. The moisture of the breath would also sum to indicate distinctly their exislener in the sulmorary nembeans. He are award that it has been suggested that this is from the mucous grands, and that the watery discharges in many of the loud afterlions, are the product of the same agains.



The presence of absorbent referts is casing shown. They exist as we refer remarked, as a part of the structure of the velle, and in the small entertenes receive the name of tactures. They take up, and I canomal and are to a certain extent, instrumental in the formation of

Without attempting a formal disertation on the klysiclogy of the allowed Membrana, we may still be allowed to head at the important part prefers to the necessary which have icen prefers or the surject which have icen prefers at the surject of their affect matter surject to the necessary the streng cursules to the necessary the first are paradiery precess, at the journalism of chymic to be accomplished, it is necessary that he food taken into the stemach should



strutum after strutum. le brought inte immediate contact with the mucius surjace of the organ in order to receive a new charwher and be hupared or suther change. who same seman h applies to the conversion of chyme onle shyle in the small intestines, and the net was stuting revolution in the conlende of the large. it council war what takes place on inest occasions by the chemical eparation of any secreted fluid on the action of any harticular set of vipels. he hucepes are complex ones. or the withemunes of which, to know the relat action of he murous lesse, and its direct and intimute uffilication to the continend in gester to the sine qua non. Whe hower which the Mucous Membran has of conquirling culain into is well known, and advantage laken of the 'ael jor culinary hurfrosis.



Faving his far been employed in considering the digister macres topic in its normal or physiological condition as well now proceed to study it in its abnormal or pathological state.

The intestinal canal may become the seal " Linase wither humants or secondary. In the first case, so a consessioned of the direct unt livation of nor our outstances 'o its mucous surface, or of their charaction through the medium of the system at large; and in the second, as an off then consequent on that i some other part. Any allenfel at inumerating the terst outer of causes would toad into unnecessary detail; no can we indulge or shouldions on the second, or the sympathy of the hard with other ergs o; though the subject is one of onque, sing interest. The farameunt introdunce recently asouted by Breujous and his folrowers, of the temperatogreal school is affections of



The preme vice in all diverses generally regarded as sensibilitiernal, has given rice to many observations fellowed by visions conclusions on he had a medical men in Trance, treat Buluen as it in sea country. It is not one ways to what is not concern, the ways the most fully contestioning the vision, that a all eigens, the internal rend amount of the superior or gastine horses a some estimately the superior or gastine horses a horse on the angel of sense there so deversities and numerous, that it seeing not may sense in the sound of all the others.

Thought haven in the Sallian internal illustrations of cultivations in colour.

Inflammation of in Unions o Himbrane is attended by he wased from money of had, have, carnets and switting. I have may set described as may set described as they are knewn to the superficies of the lasty. It that home, he was trivial in a consense.



the office of there is the past caseins it act, its effects cause with it by the bliest estimated to the grown not covering, in the several constraints of the most post fresh the most past backers when you will be most to the most of the most of the habest of the inserted and constitution is receiled and constitution is receiled and constitution is receiled and constitution is receiled.

"The holiculty has consistent destinguishing, how he relieve sharps in the appearance of the museus members are not the consequences of the museus street, a not of the member that there is alterations, on what he there members the members to the attendance of the diagnostic legis a market activations of the microus to legis a market activations of the microus teles, non hos of tale exceled so much attention as that he had on world of sufficient states to doubted that for work of sufficient states



on this subject, the yeatous insistingalize of the causes of disease, has in his antopsic examina. 'cons off ver lik into one, or justed in the reject of his search. Indust, such his her the uncertainty xisting with again to it, mal i has then multed whethe is flam nation in the intestinal carat, can be de mordianed by the phenomena apparent on in section. Let by analy, many while ob. source in receasily ; the medern or Brunsais school, wire induced to regard admip of the incestinal inucous liper as evidence of inplammation .. " I mony that however, who were suplicat on this point, ell. I ellowing agricars to have advanced facthest in his opposition. Tum examining the ledies of some four criminals who had been hanged, and of forsond drawned he came to the conclusion that those signs or ainauty attribute & to instamma-



tion existed where this trucels could not be supposed to have when place. I ell. Ichlowly's a marks however a sales factory rapty is not wanting. Mappily the experiments of - Buchal and others ied us to anticipate the very results at which he arrived. These experiments went to show that if the general curentation is arrested, as is the case in asphys ia pon a : 11.9 or driwning, a congistion of Ri cabilanes was the corsequent, and from the vascularity of the intestinal but we are not be wonder that it should i involved in He general distreps. Let almosphene air for a time be refused acce is 's the lungs; it is or gans then wanting their accustomed stimulus, and being unable to perform these functional duty in the chemical changing of the blood, will herduce a consequent wrist of the fluid in the catillaces of the sher, and educeus



Other branes. This is sur is host in Langer of sufficulion. Here hourse the appearant is removed by a a moval of the vistruction, and a when he free breathing. But if as physia ve suddenly induced, and constantly kept up. unter the subject to Lestroyed, we shall have a defer nt result, and the very at hear ances which oil. Sellowly in some of his cases has Less grated of In some of his cases, we cognize what would be almost considered as marks of. bue inflammation. Sei, ned we to surprized a' His, if we for a moment effect upon the ir-Humas which the stronger imotions, or tapsions a, the mind, exercise over this rail a our offlin, and the debauches o when most cuminais . ave been previously addicted. That however we may not fail into the same ever with all Hellowly, let us see by what marks we ar to discreminate between ha sive congestion, and



luce Mammalion.

In conducting an examination for this Lucrose, it will be noter that the mucous lesous we detached. The shall then sometimes find, that the except is swing to an enjection of some of the thir could of the nelestine, generally in such. cases it is the sub-cerous; so that frequently is ud upranance , he mucous coul is owing to i's some-transpacency. In this way, ell. Sinn thinks we may account for a great number ; cases of uneform rednels described by authors. une were led ente ever by their los superficise examination. There the colour is uniformly and, and especially where it appears elightly tered, it will be necessary a examine with great allention.

In he greatest number of eases, we find that the readness is not uniform, but it is owing to the injection of the objects, principally of the



capillaries of the innouns way. We exemplications may be braced by the eye who had no to the light, and this condition off him would ram ted injection, arterization, more or less worth, whence,

The true deforme in the applicarance is conjustion and inflammation is this, that in the former, the colour is more equally beforest throughout the organ or which it is sealed, and does not resent the previous stollated affects ance of the latter.

In his early stage of a summation, the circularly of the Alemona in will be found and information of the order of parent faced and differential with thood. The parent when a minimum he eye and the taylor, it resents when a minimum out lead, or mations out and real or a uniform will lead, or mations of which we will be to be suffered to the first of the material or the duration of the precess sene



it may be created in the course of an hour by conveying a corrosive horson into the stomach of an animal . b. fiex jour & he mucous moin brune of animals who four and twenty hours before had swallowed supportrum, of a very deck red brown. Often a considerable brack may be of a uniform sed colour, varying from vermition to the despest brown. The red may gradual, or terminale in an abrufol edge elgain we may find , round or uregular circumscribed. red patches, in the intermedial spaces of which, The membrane is white . After a certain time, if the inflammation be very vivid , le the red succeeds a uniform deep state colour. If the membrane be now detached and held before the light, the vefsels appear injected, and in numerable black spots are seen as it were studding the surface, formed apparently from matter deposited on it. M. Genn cautions



against confounding it with the blackish colour, which would from the contact of subschuretted hydrogen gas at the time when pulufaction commences. By way of distinguishing them we we lold , that when the greezest lind depends from the beginning on nutrefaction, it stightly auproaches a deep green; it is uneform, and we no not find it flecked with black; other signs of purefaction are also evident. As a further lest, we are directed to plunge the parts in wa in, when if the colour is the product of inflammation it is atmost intirely effaced by a protonged stay in the fluid, which does not follow when the coisur has the other cause.

chather appearance common in instammalien is a dark red, blotched molled opposioner. No diversified indeed are the appearances which instammation gives rise to and so numerous are the appreciations which different writers



2

give to the same how that we may been whent the constituent made, were open trong of the nam. brane on the natural state.

A alterations in texture and) consistences.

.) Inflammation of the digestive canal being burnelled to go on from neatest, mal-treatment or from seulable remedees proving unavailing gives use to other prenomena. The just we shall notice is inal or extening. This may occur in any hart of the canal though its existence in the stomach has been most treated of by authors. It is alike the result of chronic and acute inflammation a is may occur after a very short time. In a dog, on which Frodie experimented, a remarkable soft ining was produced in a half hour, by the insection of a few grains of corrosive sublimate. Any attempt at removing the membrane while in this condition, will cause its tession; it may without difficulty be amoved by soraping, or



floating the affected hart in well .

he making the examination if we view he gut from wheney the examination if we view he gut from whened we find end ne esteration. I am evened never end narrewelve examined one of two appearances neverthe leastful his wall, or which is now common a grayeth blue was, or blackash and semestered a codable below. If he taller to be ease, in differently will be found in the encountry along the stocked his appearance in the stocked his appearance of the same poles so way terreted as often has pead and country, it is able to execute hold.

ch! Some was published in the colorie we "Senerales de Médicie a very intension par par "on softening with a termsheen and distruction of the stomach. We cannot do better than truefry to tay down the following deductions from the twelve cases these given.



In cases of uderation, he edges are smooth and perpendicular; or software, a well marked deprepsion along was observable on the point of variable between the parties of the invivers real which presented the optionaries in question and that surrounding it.

The membrane in hose he was corresponding with the tereon, was note, extremely then and seft, and to so so in the mucous transported mice and of glowing, fact, some transported mucous, i. He thickness of the mucous lunes of the view, i. I wanten is here thrown out against the last of the time mucous coalies interest memorial, the appearance being deceptive from its resemble, the appearance being deceptive from its resemblance is the illumidated blueolies.

When i occured under the form to coad and narrow bands jet was almost equally spread over the uter surface of the stemach: when, on the contrary, it was in one patch it occupied the



greate retremely, was wanter confirmed to the great size and a material altered of new in person to the course to the consense to the consense to the consense.

was healthy and of a refer james from entain cases a seemed ander more common, but the difference was ret sufferently sources to enable. off comes to firm any thous to steed out to the missen are seed was effected you has been to be much as a continue of the man are seed was eightened under the same communications as the sale macount

as beneates with slight softening then neps with consistently softening of the incomes thembrane els sistencien, as will as that i would be the explicit of the semach is a colour extent with the exoption of the veriloned coal were sometimes met with a same indevidual, exhibiting the fungals of greateness responding to the the stemands of the stemandon of the stemandon of the real the success months are presented out an accultantilia.



In four cases, it was of a red more or less dissmally marked, and on two others of a greyish colour wayacent to the softened paid, the memtione was sometimes of a vivid red, and as then as the next so disorganized. It other times, it was found tuberculated or interested.

The memberne tening the reten generally securities or a closer from the healthy atambard, bring a three paters or a more or top reach red; bring a three paters or uses frank softened or uses faith so the lower rates to be ten of the lower rates to be ten of the lower rates of the small indistance was ularabled.

In the symplems and progress as detacted by all Sours, on should pudge that no material difference exists between this effection and that where the stomach is perforated except that in the latter case, peritonales is more likely to supervise.

(hearly allied to softening is ulceration;



a process to which sell parts of the labor is limber. It may occur in the stemach, the large or small intestines, though sisteriories shows the town on the series of the closers, and here too it is they are much men experienced that in the stemach or small intestine. It human receives to the result of the Spections is security on subjects. And in ten in the security on subjects in more on the spections, in the stemach in the length of the time of the security of the second continued in the security of the second continued in the species, in the concern, and in eighteen, in the concern, and in eighteen, in the concern, and in eighteen, in the colon.

We are now here experience of the English of tems, that in frammation may exist been returned, sense in must be differentially or the cause he agree, and recultive editory normalies; gradually and account may be stow in its progress and in some presents is manifested a bown to resel



ulceration to a remarkable extent.

Ulcurs may exist of various sizes from the smallest tesson is several inches. It Indicat has seen the mucrous membrane jet six fingers broadth above the cacum entirely removed. In shape, there also wany observery no victio in this respect. The membrane in their vecenty may be when in a stable of health or desease, per white in a stable of health or desease, per purch, also covers are vicioaled and indurate, resumming the supporting observation and other lemes no such apparence is puseful d.

Mendion may just tak plan in the mucous body, a is the sase, som the approximation of services of services of services of the graduality enduced, it would some to common very his case of the peticles or mucous crypts. This was for much some sufficiently insisted on. We have seen them says to in the orderacy state more or top separant, but the orderacy state more or top separant, but



sufficiently developed; get it is very common to find them distended with mucus and giving Is the membrane a granulated aspect; his is observed especially in the duedenum, and convedes with Milageses. The austre- Levodenal Thurseld Membrane we then compre for them stightly, we see the fined cozing soon have summets. (It other lines, when the inflamma tion has been reved, we lind him more dislonded by a hur hus or succended to a tright red curte, and finally when the instammation ins been hronce they contain yelicurch muller analogous 's that o' 'wheretes." Ih same appear unce exists when we illement to remove the mucow body i de roton; the crypts containing a small quantity of whilesh is greyish maller, remain. I s these remarks, it has bur of posed, that if the fellicis are the bounts at which in stenal ulcus our one, then should they be



more frequent in the duode num, as the jolicles there exist in greatest alundance.

Moralion having existed for some lime in the mucous membrane of not arrested, may involve the other begoing. In the case the utce . rative process extends the if to the sub- mucous collular coul which it gradually removes; or, we ar lold that the lipse will take on a morted action, and u, her undergoing several changes with regard to colour and consistence, at ungthe stoughs away i ach of the other mem-Granes in turn suffers the same fale, until finally a communication is made between the car thes of the intestine, and abdomen, or adhesion 's some of the surrounding parts is formed. A great variety of cases of this nature, is recorded by Gerard , Chavers , Grampton , Chardel , Car mechael Dmyth, Sinil, Jours , 4 berow mbie, and others. From the writings of these gentlemen,



and particularly the latter, we collect the for turning facts.

Occurring in the stomach, the disease is very insections, and deceptive, prequently going on to a fatal ejuce without any symptoms to indicate its existence.

In its pregreps, it may be nahid or very stown o'ne just occurs from the application o surrow poisons and the like; the latter where the cause has crassed to act after having established a mervid process.

cases are on record of persons having surveyed for year after the first symptoms of the gastree affection had come on with occateinal remissions and intermissions from all found, alunts thus setuated have generally duck wary week before of the luncause existed, until the send indy was of read.

Again, we are enformed of office cased



where in a mement, the patient having prive ously enjoyed perfect health, has been suized with adaming symptoms and in the course of a few hours has sunt. Here post mortem examinations have shown the wonderful effect of an unknown exciting cause.

here latter were the terminations of acute, the former of chronic inflammation.

The perferations may be single or memirous, large or small. Vecuring in the ste mach, the smallest will prove falal, but mach in the intestenal canal, we are told of continuable portion of the get being removes vejore death has supervised.

Me Socies, whose high authority we have before used, woords seen cases of pergenation from acute enterities accurating in the small intestine, attended some with regular parryems, and all with febrile symplems, more or lije



developed.

The harts surreunding a perjocation, are in appearance as from the uter of the mucous coal alone.

The imuceus Thombrane is inscribed to an extent greater than that of the lique beneath. Pemples and pusheles are occasionally found covering the muceus thombranes. Cliscly examened, prosions are sometimes seen in their

summeds, these spreading may produce where. Some Physiologists, as John Hunder and others, have probably mistaken these perfections by the wearative process, joe we seems produced in gastic press.

The application of the part of our engines to medical juris preclement cannot be expected of us on this occasion. It is sufficient for us to event out the danger of confounding these organic changes, the consequence of internal, and to us



often unknown processes with the externations produced by corresione horsens. Ignerance of this distinction has led thypice and to accuse the innecent of the crime of porsoning encases where death had been the result of spon-barrows under allowed.

It is a long teme, gangrene was considered as figurently remains in the intestinal conal. Arcent authors have thought observed and supplied that many of his cases related, as tuck, were conformated with other thememena of inflammation, and pretendary with officering. Semetames, however it is met with and more frequently in the end of the ilium, and cocum have in their rate. It is occurrently seen in he laminar liferer, which forms the floor of an user, and is then theckened, thank or off an user, and is then there are a pitted considered years to see he is a marked at the see face



of wounds affected with haspitus gangiene. In other enstances, gangien is the direct onsequence of inflammation of the mucous members, and the isother which asults, when

Luwn of , leaves a sore.

1 The hening. In tammation of short autalion, unless of unsideralle riclines, is seidom productive of increas of return in the Muceus membrane. I. in the other hand, il be route or continued for a considerall time, This may not fin. These delfount states give rise to different of mances on the thereined 'art; thus, of it to caused by acut inflamma. tion, there is accompanying it, the delled red_ 11 ps, and other signs of intlammation; if by chronic, these will be wanting, and the vivaled part will be white. Thechening is a lermination by induration. It gut may to thus ajusted in a great roution of its extent, or it



may exist on a small space. When it is thus limited the hirch and review as otherwhom above the current of a count or overing shape will from his friend to receive or hirer their material the chape and in chance dies - than it is not unusual to and the lining morn brane of the current of the four

will be wellers are used, the subject, madeen him state; the structure of the party in strongly survey thank, an a many if not a majerier of course, or an out of a minuten would have known its seal to be in the surjuscent of course lights are attention whether we are never this lights are attention to the present of the least of the testy ware under the presch of inflammation.



speak of morbid theanels, but as we have at reasy has occasion a silude to it, in a man we supperent to expresent its nature, we shall creat from jurther remarks on the subject.

Bisedes the overest appearances mentioned, we have sometimes on the miscous surface, enical growths of soft consistence and of true in pose lines in thickness; these are found over someoney in the targe intestine through occasionally they exist in other hards.

isserved whate conseal sevations of hast a time on heapt as beard as a limited at loss and musculary to their summets are coast as med musculary the pushels of small-poy. They were queriely found in clusters with the intervency much sometimes with the intervence to the pushels of sometimes with the intervence to make the comment of the country much some times to make the country of the country and the transverse such if the color, denum and the transverse such if the color,



were the only places in which our authors met with them. In the colon, elevations of a differint enaracter more frequently presented them. selves. Conecal as the former, and sealed like them in the mucous membrane, their base is much broader . their sevation qualit; they lee menat in a pointed summel; they are of an inlinse cherry red and the surrounding membrane is somewhat injected. They are of opinion, that the malure of these bodies, is more easily unace stood, by comparing them to the small tumours 1, the skin, known by the man & But. ellerations of the luids of the Digestive muccus lipens. Mulammation of sense mere as the time tions of the mucous membrane. The mucus will lose ils consistence, and become like scrum. Under his form, instances are retaled of instrucus discharges occurring in the several bowel affections, and partionearly that of the Indean helesa. Margagne



gives an example of a Ulman, who in assingle day, discharged by he arises forly precede of tempted scrosery.

As other terms the muous acqueus great floorleety, nardens and part on a membraneus shape. The discharge in this form had often given asse to the false supposition of portions, the indistance tring removed, is to the following the indistance tring removed, is to the following the indistance of the following removed, have shown them to to repoped of ne vascularly, but a new condensation of the fuelly, which have term ettered by described on other fleely are yellowish or greyish, and sufferently consistent to allow of bungarises when removed, the subject of the fuely generally applicant to four generally applicant and and the bungarises and and the face of the marketing applicant and and the bungarises.

When fluids are also secreted on the instanding agestive Mucous Membrane; as en intermendere les et es met unecommon le send swelled palches



covered with a bloody, reddesh paste, sumengly a miglure of blood and mucus.

The mucous membranes are very leable to suppuration. The pus is orderarily thrown our upon the free surface, though it occasionally happens that et appears at the atlanted, and on uson, or i joined. Themelims nunewous per its of purutint matter are observed in the meshes of the estimar ceal, the effect of inframmation on the mucous lipere. Some pur cases have turn verified of absorpts firmed in the stemach, and descharged by wornling.

Optonesion of Mucous surfaces.

The has been made a question whether the museus (membranes do ever where en such a way as to obsteach the intestinal canal. I : Prishpy on the affirmatione, has subtested in 500 to of 1113 the Souten Med. Repository, went mass to escalash this point. He addition a ground



examples of alranguisted hernia as prey, and seaks that the corner was ensuing efficiented. I have attetentions not unjoymently occur in the wellow, and that not by the commence of the naugation but by a reposition of the maceus to contain tiping and beats of the maceus members and these may have been the case on the instances often by it is a set in the case on the instances often by a set it is a set it.

1. Inte-susception.

Inti-susception is a theny frequently, watered by wellist and a sequent economic. It is ten found in these other hand seem content of disease for which the bound has been considered for bourds. In many measures of economic to the moment of death, and when a decorate to me which is a content of the limit of the lamber of the limit of the lamber of the



the intertion is invaginated in the course. They occur mere presently in the claim. Nectorness and Bushies over the second content to come the claim of and interesting account into the expensal former and Breaker was court as include a general point, the vectom in a mar who did a alternation of the vectom in a mar who did a alternation of the vectom in a mar who did a alternation of the vectom in a mar who did a alternation of the vectom in a mar who did not be the vector of the vector o

hearing this distignment the Mysical of heariness of the exhibition mucius in interess, as assented to as after death, we small present to notice busify the alteration in other early and the production of distinguished exhibition of the figure. Yest han of the meeted attention of the figure. Yest han of the measure is question, and the shands weeder-



vient le regestion.

che a general sett it may be lived down, that, att victed or precount of sections of the consistency of metalinas of the chief there is the consistency of the chief the metality, when the mescaline against a second enjoyed and entaged, it has confirmed by metaline of the live and proceed and entaged, it has a precise a structure of the live and proceed on the same remark appears to the patter insecute the entage of the second for the patter insecute the entage of this fact will of the structured as on the headment of the gaster installed the first installed of this fact will of the structured as on the headment of acute and observe hispatte. The attacks of which we cannot of source friends the attacks of which we cannot of source friends.

of perhaps as frequent occurrence as the tises dees first mentioned, are the decauged actions in other divisions of the general muceus system. We truing the market condition of the dejestive retire. Thus, what is more common than depeared since teen of the genete winners, muceus membrane.



orinced in disestered ronal secretion and in p. from the natural state of the mucous pulmenary surface, as in pertufses, askma , certain kinds of catarrh. All those are often met with as effects of impaired digestion, and of course, of a merbid action of the gastro-intestinal mucous In imbrane . But with no part of the body does 1. lijsue in question, hold such communely o, office, and resemble so much in structure as the skin . The culancons surface is often a will jul mirror reflecting the condition of the de gestive mucous - as we see not only in the eyanthemata, but in various chronic affections. such as herpes. of Knewledge Do the nature of his chain of morbid actions, inables us to break it succe sfully, by a removal of the first and most important link.

the unctional and ortal disturbences indicating and accompanying disease of the digities uncorns



CES vidences of this state we may mention hain relaced to the west harteentoning a welfest, and successful and exception after measurement messeles, and of the welfers for they mentioned memorial messeles, and to the welfers of the memorial world from the part of the memorial verseles from the seal of the seas disconsideration and policies after memorial verseles from the seal of the seas disconsiderations.

der in the nervous and sanguiferous systems . Sain. When speaking of the distribution nerves to the alementary canal, we altuded to the desperance of sensibility in different parts. Bur does a uniformity always prevail in this respect. thus, though the stamach is in the main a wary sentenel quickly giving cognizance of the approach of danger, it is sometimes found otherwise. In ad dilion to the cases alluded to, when treating o. spontaneous perforations of that organ us mas observe that Gastriles is sometimes so insidious in its approach and progress, that hair in the ball of the great toe, or some other remote part, is the only symptom we have indicative of disease. Vin terming our diagnosis in the gastre_interiter



Fain is not a necessary concomitant to inflammation of the muchins lifence. But merins of minations have often shown the accurage of this case upon the small intestine, of which there was no indication during the life. Whise is ourning as you have before stated in to the being such hied in

the hand of the physician is made to prefs whon ris epigastrium, his exclamations soon also I

evidence of his suffering.



the greater part of its extent by the organic nerves alone. The farts of the canal expeciation semille and mortest state, are the hydric region, ducdenum, items region series heading to the lower part of the clium, and the area's of the course

We often find disorder of central parts of the degisters museus canal, indicated by irrelation of one or both extremities, as itching of the ness from the instation of worms, redness and pain of the threat, and itching of the anus.

The mureus surface is to a virtain exlent, a surface of the freedom, by which his amends is approjed of the freedom of bodies his british for multiment, or activated it is injure or distinct. In the healthy state, impreferens made on the muceus surface, and speedly evidenced by in muceus surface, and speedly evidence of the sangerifecous system, and of the brain and



senses. The residue o digestion, arrived at 1. "four to call into simultaneous action . Ih. muscular coal of the intestine, the abdeminal muscles and diaphragm, for the purpose . descation, extenormal, or violent errelation, is jollowed by a correspondingly violent action seen, are a postaled with it in healthy function. Tener in the visient pain in spasm; in gas 'waynea, es ic, cholera, and dysoulery, we recog nize the irregular action of the muscular sys lem, not as a disease of itself, but as a synn lom, and effect of the morbid state of the mucous surface.

Were we be enter fully onto this hast of our subject, we would protract our subject, we would protract our spay for as. It is comparable to a standy any of the grander the memora along place or the degestive sure we, without observing siew constants; to beautifur.



tion, rates in the stimulations applied to this sur face. We jeel it daily in her the argistern and all are at some time or there made sonsill or d, in the prempt feel of vinous or atecheric stemule taken into the stomact. The nervous conneyion between this letter resous, and the wining and between the large intestine, and the spinal eard, serves to explain these prompt sympathies. ex more obscure, but perhaps more permane, 1 imprefsion, is made on the incephalic mals, by a morbid condition of the small intestines, hunge the sympathetic so those desirous of investigating this point , may instructively consult & Brow sais Physiology. Various irritating poisons act or the spenal marrow and brain, in virtue of an lorier impressions made on the digestive mucous surface, without any intermediate organic change or absorption. But the evidences of mucous in. rilation, are often met with in the muscular system, with of organic and animal lie. In the irst, the heart is crought inte merted acties,



constituting what is often called fever - a cir cumstance exceedingly common after irritaling, or long unchanged ingesta, in the alimentary canal. In the second, convulsions, partial and general are frequent. The muscles being obedient to the brain, we can easily understand how irritations, transfered to it from the mucous surface, should be the cause of violent spasms and convulsions, as in werms, poisons, Ic. Hence we can hardly be surprised, that Brougais and his followers should make austro-enterities the origin of all fevers, the bilious, the adynamie, the ataxie, the mucous, the ardent, the singultous, the anglicus sudor, He. We need scarcely mention that this is a conhoverted point, nor will it be expected that we should here take part in the debate. As ordinary phenomena however, we all know the effects of ingesta taken into the stomach, on of constipation. Either will show its effects in the accelerated pulse, and the gloomy initable

mind . It knowledge of the latter made Vellaire observe that many a war had been waged, because a minister could not procure a seed, and from kigh authority the weing small to win. I his time to choose, the worling small to win. We have close our remarks on the Digits-live alucous ellembrane, happy should they please.

